AMENDMENT OF THE CLAIMS

1-9. (Cancelled)

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- 10. (Currently Amended) A pharmaceutical composition for treating or preventing a disorder or condition selected from autoimmune diseases, rheumatoid arthritis, type I diabetes (recent onset), lupus, inflammatory bowel disease, optic neuritis, psoriasis, multiple sclerosis, polymyalgia rheumatica, uveitis, and vasculitis, acute and chronic inflammatory conditions osteoarthritis, adult Respiratory Distress Syndrome, Respiratory Distress Syndrome of infancy, ischemia reperfusion injury, glomerulonephritis, and chronic obstructive pulmonary disease (COPD) allergic conditions, asthma and atopic dermatitis, inflammation associated with infection, viral inflammation, influenza, hepatitis and Guillian-Barre, chronic bronchitis, chronic or acute tissue, cell, and solid organ transplant rejection, xeno-transplantation, atherosclerosis, restenosis, HIV infectivity (co-receptor usage), and granulomatous diseases, sarcoidosis, leprosy and tuberculosis, and sequelae associated with cancers, multiple myelomax; limiting the production of cytokines and/or TNF at inflammatory sites, as a consequence of decreasing cell infiltration; for treating diseases and/or congestive heart failure, linked to TNF and IL-1 and for treating pulmonary emphysema or dyspnea associated therewith, emphysema; HIV-1, HIV-2, HIV-3; cytomegalovirus (CMV), adenoviruses, Herpes viruses (Herpes zoster and Herpes simplex), for treating sequelae associated with infection where such infection induces production of detrimental inflammatory cytokines and/or TNF, fungal meningitis, joint tissue damage, hyperplasia, pannus formation and bone resorption, psoriatic arthritis, hepatic failure, bacterial meningitis, Kawasaki syndrome, myocardial infarction, acute liver failure, lyme disease, septic shock, cancer, trauma, and malaria, in a mammal, comprising an amount of a compound according to claim 4-20 or 21, or a pharmaceutically acceptable salt thereof, that is effective in treating or preventing such disorder or condition and a pharmaceutically acceptable carrier.
- 11. (Currently Amended) A pharmaceutical composition for treating or preventing a disorder or condition that can be treated or prevented by inhibiting chemokine binding to the receptor CCR1 in a mammal, comprising an amount of a compound according to claim 4-20 or 21, or a pharmaceutically acceptable salt thereof, effective in treating or preventing such disorder or condition and a pharmaceutically acceptable carrier.

12-19. (Cancelled)

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20. (New) A compound of the formula

$$(R^4)_{e}$$
 $(Y)_{d}$ $(X)_{c}$ $(R^2)_{b}$ $(R^1)_{a}$ $(R^3)_{j}$

or the pharmaceutically acceptable salt thereof; wherein

 R^1 is hydrogen, halo, cyano, nitro, trifluoromethyl, trifluoromethoxy, (C_1-C_6) alkyl, hydroxy or (C_1-C_6) alkylcarbonyloxy;

 R^2 and R^3 are each independently selected from (C_1-C_6) alkyl, (C_3-C_8) cycloalkyl, amino (C_1-C_6) alkyl, amino (C_3-C_8) cycloalkyl, (C_1-C_6) alkylamino (C_1-C_6) alkyl, (C_1-C_6) alkylamino (C_3-C_8) cycloalkyl, hydroxy (C_1-C_6) alkyl, (C_1-C_6) alkoxycarbonylamino (C_1-C_6) alkyl, ureido (C_1-C_6) alkyl, (C_1-C_6) alkyl, (C_2-C_9) heteroaryl (C_1-C_6) alkyl or (C_2-C_9) heterocycloalkyl (C_1-C_6) alkyl;

 R^4 is $(R^5)_f(R^6)_g(C_6-C_{10})$ aryl or $(R^5)_f(R^7)_h(C_2-C_9)$ heteroaryl wherein f, g and h are independently 1 or 2;

 R^5 is (C_2-C_9) heterocycloalkylcarbonyl, (C_2-C_9) heteroarylcarbonyl, (C_2-C_9) heteroaryl (C_1-C_6) alkylaminocarbonyl, (C_2-C_9) heterocycloalkyl (C_1-C_9) heterocycloalky

- C₆)alkylaminocarbonyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylaminocarbonyl, ureido(C₁-C₆)alkylaminocarbonyl, ((C₁-C₆)alkylaminocarbonyl, ((C₁-C₆)alkyl₂ureido(C₁-C₆)alkylaminocarbonyl, aminosulfonyl(C₁-C₆)alkylaminocarbonyl, (C₁-C₆)alkylaminosulfonyl(C₁-C₆)alkylaminocarbonyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylcarbonylamino, cyanoguanidino(C₁-C₆)alkylcarbonylamino, (C₁-C₆)alkylcarbonylamino, (C₁-C₆)alkylcarbonylamino, (C₁-C₆)alkylcarbonylamino
- C₆)alkylcyanoguanidino(C₁-C₆)alkylcarbonylamino, ((C₁-C₆)alkyl)₂cyanoguanidino(C₁-C₆)alkylcarbonylamino, aminocarbonyl(C₁-C₆)alkylcarbonylamino, (C₂-C₉)heteroaryl(C₁-C₆)alkylcarbonylamino, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylcarbonylamino, aminosulfonyl(C₁-C₆)alkylcarbonylamino, amino(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, ((C₁-C₆)alkylureido, ((C₁-C₆)alkyl)₂amino(C₁-C₆)alkylureido, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆
- C₆)alkylureido, (C₂-C₉)heteroaryl(C₁-C₆)alkylureido, aminosulfonyl(C₁-C₆)alkylureido, aminocarbonyl(C₁-C₆)alkylureido, ((C₁-C₆)alkylureido, ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkylureido, acetylamino(C₁-C₆)alkylureido, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylureido, amino(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, acetylamino(C₁-C₆)alkylsulfonylamino, acetylamino(C₁-C₆)alkylsulfonylam

- C₆)alkylsulfonylamino, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylsulfonylamino, ureido(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkylsulfonylamino)
- C₆)alkylsulfonylamino, aminocarbonyl(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkoxycarbonylamino(C₁-C₆)alkylsulfonylamino, aminosulfonylamino, (C₁-C₆)alkylaminosulfonylamino, ((C₁-C₆)alkyl)₂aminosulfonylamino, aminocarbonyl(C₁-C₆)alkylamino(C₁-C₆)alkylsulfonylamino, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylsulfonylamino, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylsulfonylamino,
- cyanoguanidino, (C₁-C₆)alkylcyanoguanidino, ((C₁-C₆)alkyl)₂cyanoguanidino, (C₂-C₉)heterocycloalkylcyanoguanidino, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylcyanoguanidino, (C₂-C₉)heteroaryl(C₁-C₆)alkylcyanoguanidino, amino(C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, ((C₁-C₆)alkylcyanoguanidino, ((C₁-C₆)alkylcyanoguanidino,
- aminocarbonyl(C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylaminocarbonyl(C₁-C₆)alkylcyanoguanidino, ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkylcyanoguanidino, aminocarbonyl(C₁-C₆)alkylamino, (C₁-C₆)alkylamino(C₁-C₆)alkylamino, (C₁-C₆)alkylamino(C₁-C₆)alkylamino, (C₂-C₉)heteroaryl(C₁-C₆)alkylamino, acetylamino(C₁-C₆)alkylamino, (acetyl)((C₁-C₆)alkylamino, acetylamino(C₁-C₆)alkylamino, (acetyl)((C₁-C₆)alkylamino)
- C₆)alkyl)amino(C₁-C₆)alkylamino, cyano(C₁-C₆)alkylaminoalkyl, aminocarbonyl(C₁-C₆)alkylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylamino
- C₆)alkyl, cyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₁-C₆)alkylcyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂cyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkylylureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, aminocarbonyloxy(C₁-C₆)alkylamino(C₁-C₆)alkyl,
- acetylamino(C_1 - C_6)alkylcarbonylamino(C_1 - C_6)alkyl, (acetyl)((C_1 - C_6)alkyl)amino(C_1 - C_6)alkylcarbonylamino(C_1 - C_6)alkyl, aminocarbonyl(C_1 - C_6)alkylcarbonylamino(C_1 - C_6)alkylcarbonylamino(C_1 - C_6)alkylcarbonylamino(C_1 - C_6)alkyl, ((C_1 -

C₆)alkyl₂aminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminosulfonyl(C₁-5 C_6) alkylcarbonylamino (C_1 - C_6) alkyl, (C_2 - C_9) heterocycloalkyloxycarbonylamino (C_1 - C_6) alkyl, cyanoguanidino(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, cyano(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, wherein R⁵ is amino(C₁- C_6) alkylamino carbonylamino (C_1-C_6) alkyl $, (C_1-C_6)$ alkylamino (C_1-C_6) alkylamino carbonyl $amino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)_2 amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl,\\$ 10 aminocarbonyl(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆) alkylcarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆)alkoxycarbonyl $amino(C_1-C_6) alkylamino carbonylamino (C_1-C_6) alkyl, (C_2-C_9) heterocycloalkyloxycarbonylamino (C_1-C_6) alkylamino carbonylamino (C_1-C_6) alkylamino (C_1-C_6) alkylamin$ amino(C1-C6)alkylaminocarbonylamino(C1-C6)alkyl, (C2-15 C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylaminocarbony lamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryl(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylureido(C₁-C₆)alkyl, (C₁- C_6) alkylureido (C_1 - C_6) alkylureido (C_1 - C_6) alkyl C_1 - C_6) alkylureido (C_1 C₆)alkyl or cyanoguanidino(C₁-C₆)alkylureido(C₁-C₆)alkyl, amino(C₁-20 C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylamino(C₁-C₆)alkylsulfonylamino(C₁- $C_6) alkyl, ((C_1-C_6)alkyl)_2 amino (C_1-C_6)alkyl sulfonylamino (C_1-C_6)alkyl, \ acetylamino (C_1-C_6)alkyl)_2 amino (C_1-C_6)alkyl sulfonylamino (C_1-C_6)alkyl)_2 amino (C_1-C_6)alkyl sulfonylamino (C_1-C_6)alkyl$ C_6)alkylsulfonylamino(C_1 - C_6)alkyl, (acetyl)((C_1 - C_6)alkyl)amino(C_1 - C_6) alkylsul fonylamino (C_1 - C_6) alkyl, ureido (C_1 - C_6) alkylsul fonylamino (C_1 - C_6) alkyl, (C_1 -C₆)alkylureido(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-25 C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁- $C_6) alkyl sulfonylamino (C_1-C_6) alkyl, \ cyanoguanidino (C_1-C_6) alkyl sulfonylamino (C_1-C_6) alkyl, \ cyanoguanidino (C_1-C_6) alkyl sulfonylamino (C_1-C_6) alkyl, \ cyanoguanidino (C_1-C_6) alkyl sulfonylamino (C_1-C_6) alkyl sulfonylami$ (C_1-C_6) alkyl $(cyanoguanidino)(C_1-C_6)$ alkylsulfonylamino (C_1-C_6) alkyl $, ((C_1-C_6)$ alkyl $, ((C_1-C_$ C₆)alkyl)₂(cyanoguanidino)(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, aminocarbonyl(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkoxycarbonylamino(C₁-30 C_6) alkylsul fonylamino (C_1 - C_6) alkyl, (C_2 - C_9) heterocycloalkyloxycarbonylamino (C_1 -C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, aminosulfonylamino(C₁-C₆)alkyl, (C₁- C_6) alkylaminosulfonylamino (C_1-C_6) alkyl, $((C_1-C_6)$ alkyl)₂ aminosulfonylamino (C_1-C_6) alkyl, cyanoguanidino(C₁-C₆)alkyl, (C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, ((C₁-35 C₆)alkyl)₂(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heteroaryl(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(C₁-

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        C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkyl(cyanoguanidino)(C_1-
        C_6)alkyl, amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-
        C<sub>6</sub>)alkyl(cyanoguanidino)(C<sub>1</sub>-C<sub>6</sub>)alkyl, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>2</sub>amino(C<sub>1</sub>-
        C<sub>6</sub>)alkyl(cyanoguanidino)(C<sub>1</sub>-C<sub>6</sub>)alkyl, aminocarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkyl(cyanoguanidino)(C<sub>1</sub>-
        C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkyl(cyanoguanidino)(C<sub>1</sub>-C<sub>6</sub>)alkyl, ((C<sub>1</sub>-
        C_6)alkyl)<sub>2</sub>aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, wherein R^5 is (C_2-
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        C<sub>9</sub>)heterocycloalkylsulfonyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-
        C<sub>6</sub>)alkylaminosulfonyl, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>2</sub>amino(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>2</sub>-
        C<sub>9</sub>)heteroarylaminosulfonyl, ureido(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylureido(C<sub>1</sub>-
        C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)_2ureido(C_1-C_6)alkylaminosulfonyl, <math>(C_1-C_6)alkylaminosulfonyl)
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        C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonylamino(C<sub>1</sub>-
        C<sub>6</sub>)alkylaminosulfonyl, (C<sub>2</sub>-C<sub>9</sub>)heterocycloalkyloxycarbonylamino(C<sub>1</sub>-
        C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminosulfonyl,
        aminocarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, cyanoguanidino(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>2</sub>-
        C<sub>9</sub>)heteroaryl(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>2</sub>-C<sub>9</sub>)heterocycloalkylaminosulfonyl, halo(C<sub>1</sub>-
20
        C<sub>6</sub>)alkylaminocarbonyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkylureido, halo(C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-
         C_6)alkoxycarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, hydroxy(C_1-
        C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, halo(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl,
        aminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>2</sub>aminosulfonyl, hydroxy(C<sub>1</sub>-
        C_6)alkylaminosulfonyl, or (C_1-C_6)alkoxy(C_1-C_6)alkylaminosulfonyl;
                   R^6 and R^7 are each independently halo, halo(C_1-C_6)alkyl, (C_1-C_6)alkyl, (C_1-C_6)alkoxy,
25
         trifluoromethyl, trifluoromethoxy, hydroxy, aminocarbonyl, cyano, ureido, (C<sub>1</sub>-
         C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino or glycinamino;
                   a is 1, 2, 3, 4 or 5;
                   b is 0, 1, 2, 3 or 4;
30
                   c is 1:
                   d is 1;
                   e is 1:
                   j is 1, 2, 3, or 4;
                   Y is CH<sub>2</sub>;
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                   X is C(O); and
                   Z is oxygen.
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5 21. (New) A compound of the formula

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$$R^{4}$$
 $(X)_{c}$ $(X)_{c}$ $(X)_{c}$ $(X)_{b}$ $(X^{1})_{a}$ $(X^{2})_{b}$ $(X^{1})_{a}$

or the pharmaceutically acceptable salt thereof; wherein

 R^1 is hydrogen, halo, cyano, nitro, trifluoromethyl, trifluoromethoxy, (C_1-C_6) alkyl, hydroxy or (C_1-C_6) alkylcarbonyloxy;

R² and R³ are each independently selected from (C₁-C₆)alkyl, (C₃-C₈)cycloalkyl, amino(C₁-C₆)alkyl, amino(C₃-C₈)cycloalkyl, (C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₁-C₆)alkylamino(C₃-C₈)cycloalkyl, hydroxy(C₁-C₆)alkyl, (C₁-C₆)alkoxycarbonylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkyl, (C₁-C₆)alkyl, (C₂-C₉)heteroaryl(C₁-C₆)alkyl or (C₂-C₉)heterocycloalkyl(C₁-C₆)alkyl;

 R^4 is $(R^5)_f(R^6)_g(C_6-C_{10})$ aryl or $(R^5)_f(R^7)_h(C_2-C_9)$ heteroaryl wherein f, g and h are independently 1 or 2;

 $R^5 \text{ is } (C_2\text{-}C_9) \text{heterocycloalkylcarbonyl, } (C_2\text{-}C_9) \text{heteroarylcarbonyl, } (C_2\text{-}C_9) \text{heteroaryl} (C_1\text{-}C_6) \text{alkylaminocarbonyl, } (C_2\text{-}C_9) \text{heterocycloalkyl} (C_1\text{-}C_6) \text{alkylaminocarbonyl, } (C_1\text{-}C_6) \text{alkylaminocarbonyl, } \text{ureido} (C_1\text{-}C_6) \text{alkylaminocarbonyl, } (C_1\text{-}C_6) \text{alkylaminocarbonyl, } ((C_1\text{-}C_6) \text{alkylamin$

- $\label{eq:continuous} C_6) alkyl_2 ureido(C_1-C_6) alkylaminocarbonyl, aminosulfonyl(C_1-C_6) alkylaminocarbonyl, (C_1-C_6) alkylaminosulfonyl(C_1-C_6) alkylaminocarbonyl, (C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylcarbonylamino, (C_1-C_6) alkylcarbonylamino, (C_1-C_6) alkylcarbonylamino, (C_1-C_6) alkylcarbonylamino, ((C_1-C_6) alkylcarbonylamino) amino(C_1-C_6) alkylcarbonylamino, ((C_1-C_6) alkylcarbonylamino) aminosulfonyl(C_1-C_6) alkylcarbonylamino) aminosulfonyl(C_1-C_6) alkylcarbonylamino) aminosulfonyl(C_1-C_6) alkylcarbonylamino(C_1-C_6) alkylcarbonylamino) aminosulfonyl(C_1-C_6) alkylcarbonylamino(C_1-C_6) alkylcarbonylamino($
- C₆)alkylcarbonylamino, aminocarbonyl(C₁-C₆)alkylcarbonylamino, (C₂-C₉)heteroaryl(C₁-C₆)alkylcarbonylamino, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylcarbonylamino, aminosulfonyl(C₁-C₆)alkylcarbonylamino, amino(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylureido, (C₂-C₉)heteroaryl(C₁-C₆)alkylureido, aminosulfonyl(C₁-C₆)alkylureido, aminosulfonyl(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)heteroaryl(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)alkylureido, (C₂-C₉)alkylure

aminocarbonyl(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆)alkylureido, ((C₁-C₆)alkylureido, ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkylureido, acetylamino(C₁-C₆)alkylureido, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylureido, amino(C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkyl)₂amino(C₁-C₆)alkylsulfonylamino, acetylamino(C₁-C₆)alkylsulfonylamino, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylsulfonylamino, ureido(C₁-C₆)alkylsulfonylamino, ureido(C₁-C₆)alkylsulfonylamino,

- 5 C₆)alkylsulfonylamino, (C₁-C₆)alkylureido(C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, cyanoguanidino(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkylsulfonylamino, aminocarbonyl(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkyl
- 10 C₆)alkoxycarbonylamino(C₁-C₆)alkylsulfonylamino, aminosulfonylamino, (C₁-C₆)alkylaminosulfonylamino, ((C₁-C₆)alkyl)₂aminosulfonylamino, aminocarbonyl(C₁-C₆)alkylamino(C₁-C₆)alkylsulfonylamino, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylsulfonylamino, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylsulfonylamino, cyanoguanidino, (C₁-C₆)alkylcyanoguanidino, ((C₁-C₆)alkyl)₂cyanoguanidino, (C₂-
- C₉)heterocycloalkylcyanoguanidino, (C₂-C₉)heteroarylcyanoguanidino, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylcyanoguanidino, (C₂-C₉)heteroaryl(C₁-C₆)alkylcyanoguanidino, amino(C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, aminocarbonyl(C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alky
- C₆)alkylcyanoguanidino, ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkylcyanoguanidino, aminocarbonyl(C₁-C₆)alkylamino, (C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino, aminosulfonyl(C₁-C₆)alkylamino, (C₂-C₉)heteroaryl(C₁-C₆)alkylamino, acetylamino(C₁-C₆)alkylamino, (acetyl)((C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino)
- C₆)alkylamino(C₁-C₆)alkyl, acetylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, cyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkyla
- C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂cyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkylureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, aminocarbonyloxy(C₁-C₆)alkylamino(C₁-C₆)alkyl, acetylamino(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)
- C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkylaminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminosulfonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminosulfonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminosulfonyl(C₁-C₆)alkylcarbonylamino(

- 5 C₆)alkylcarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkyl, cyanoguanidino(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, cyano(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, wherein R⁵ is amino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkylamino(C₁-C₆)alkylaminocarbonyl
- amino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂amino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl,

 aminocarbonyl(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆)

 alkylcarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonyl amino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)
- C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylaminocarbony lamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryl(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylureido(C₁-C₆)alkyl, (C₁-C₆)alkylureido(C₁
- C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂amino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsu
- C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, cyanoguanidino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂(cyanoguanidino)(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, aminocarbonyl(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkoxycarbonylamino(C₁-
- C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, aminosulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylaminosulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂aminosulfonylamino(C₁-C₆)alkyl, cyanoguanidino(C₁-C₆)alkyl, ((C₁-C₆)alkyl, (
- 35 C₆)alkyl)₂(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heteroaryl(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl

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5
       C_6)alkyl, amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-
        C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)<sub>2</sub>amino(C_1-
        C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-
        C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)
        C_6)alkyl)<sub>2</sub>aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, wherein R^5 is (C_2-
10
       C<sub>9</sub>)heterocycloalkylsulfonyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-
        C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)_2amino(C_1-C_6)alkylaminosulfonyl, <math>(C_2-C_6)alkylaminosulfonyl)_2
        C<sub>9</sub>)heteroarylaminosulfonyl, ureido(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylureido(C<sub>1</sub>-
        C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)_2ureido(C_1-C_6)alkylaminosulfonyl, <math>(C_1-C_6)alkylaminosulfonyl)
        C_6)alkylsulfonylamino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkoxycarbonylamino(C_1-
       C<sub>6</sub>)alkylaminosulfonyl, (C<sub>2</sub>-C<sub>9</sub>)heterocycloalkyloxycarbonylamino(C<sub>1</sub>-
15
       C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminosulfonyl,
        aminocarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, cyanoguanidino(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, (C<sub>2</sub>-
        C_9)heteroaryl(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkylaminosulfonyl, halo(C_1-
       C<sub>6</sub>)alkylaminocarbonyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkylureido, halo(C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-
20
       C_6)alkoxycarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, hydroxy(C_1-
       C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, halo(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl,
        aminosulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>2</sub>aminosulfonyl, hydroxy(C<sub>1</sub>-
        C_6)alkylaminosulfonyl, or (C_1-C_6)alkoxy(C_1-C_6)alkylaminosulfonyl;
                 R^6 and R^7 are each independently halo, halo (C_1-C_6) alkyl, (C_1-C_6) alkyl, (C_1-C_6) alkoxy,
25
       trifluoromethyl, trifluoromethoxy, hydroxy, aminocarbonyl, cyano, ureido, (C<sub>1</sub>-
       C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino or glycinamino;
                 a is 1, 2, 3, 4 or 5;
                 b is 0, 1, 2, 3 or 4;
                 c is 1;
30
                 d is 1;
                 e is 1;
                 j is 1, 2, 3, or 4;
                 Y is CH<sub>2</sub>;
                 X is C(O); and
                 Z is NR^9 wherein R^9 is hydrogen or (C_1-C_6)alkyl.
35
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- (New) The compound of claim 20 or 21 wherein R⁵ is (C₂-C₉)heterocycloalkylcarbonyl, (C₂-C₉)heteroarylcarbonyl, (C₂-C₉)heteroarylcarbonyl, (C₂-C₉)heteroarylcarbonyl, (C₁-C₆)alkylaminocarbonyl, (C₁-C₆)alkylaminocarbonyl, ureido(C₁-C₆)alkylaminocarbonyl, (C₁-C₆)alkylaminocarbonyl, ((C₁-C₆)alkylaminocarbonyl, ((C₁-C₆)alkylaminocarbonyl, aminosulfonyl(C₁-C₆)alkylaminocarbonyl or (C₁-C₆)alkylaminosulfonyl(C₁-C₆)alkylaminocarbonyl.
 - 23. (New) The compound of claim 20 or 21 wherein R^5 is (C_1-C_6) alkylsulfonylamino (C_1-C_6) alkylcarbonylamino, cyanoguanidino (C_1-C_6) alkylcarbonylamino, (C_1-C_6) alkylcarbon
- C₆)alkylcyanoguanidino(C₁-C₆)alkylcarbonylamino, ((C₁-C₆)alkyl)₂cyanoguanidino(C₁-C₆)alkylcarbonylamino, aminocarbonyl(C₁-C₆)alkylcarbonylamino, (C₂-C₉)heteroaryl(C₁-C₆)alkylcarbonylamino, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylcarbonylamino, or aminosulfonyl(C₁-C₆)alkylcarbonylamino.
- 24. (New) The compound of claim 20 or 21 wherein R⁵ is amino(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₁-C₆)alkylureido, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylureido, (C₂-C₉)heteroaryl(C₁-C₆)alkylureido, aminosulfonyl(C₁-C₆)alkylureido, aminocarbonyl(C₁-C₆)alkylureido, (C₁-C₆)alkylureido, ((C₁-C₆)alkylureido, (C₁-C₆)alkylureido, acetylnino(C₁-C₆)alkylureido, (acetylnino(C₁-C₆)alkylureido.
 - 25. (New) The compound of claim 20 or 21 wherein R⁵ is amino(C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkylsulfonylamino, acetylamino(C₁-C₆)alkylsulfonylamino,
- (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylsulfonylamino, ureido(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, cyanoguanidino(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkylsulfonylamino,
- aminocarbonyl(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkoxycarbonylamino(C₁-C₆)alkylsulfonylamino, aminosulfonylamino, (C₁-C₆)alkylaminosulfonylamino, ((C₁-C₆)alkyl)₂aminosulfonylamino, aminocarbonyl(C₁-C₆)alkylamino(C₁-C₆)alkylsulfonylamino,

- 5 (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylsulfonylamino or (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylsulfonylamino.
 - 26. (New) The compound of claim 20 or 21 wherein R⁵ is cyanoguanidino, (C₁-C₆)alkylcyanoguanidino, ((C₁-C₆)alkyl)₂cyanoguanidino, (C₂-
- C₉)heterocycloalkylcyanoguanidino, (C₂-C₉)heteroarylcyanoguanidino, (C₂-C₉)heterocycloalkyl(C₁-C₆)alkylcyanoguanidino, (C₂-C₉)heteroaryl(C₁-C₆)alkylcyanoguanidino, amino(C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, aminocarbonyl(C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino, (C₁-C₆)alkylcyanoguanidino,
- 15 C_6)alkylcyanoguanidino or $((C_1-C_6)alkyl)_2$ aminocarbonyl $(C_1-C_6)alkylcyanoguanidino.$ wherein R^5 is aminocarbonyl $(C_1-C_6)alkylamino$, $(C_1-C_6)alkylamino$, $(C_1-C_6)alkylamino$, $(C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino$, aminosulfonyl $(C_1-C_6)alkylamino$, (C_2-C_9) heteroaryl $(C_1-C_6)alkylamino$, acetylamino $(C_1-C_6)alkylamino$ or $(acetyl)((C_1-C_6)alkyl)$ amino $(C_1-C_6)alkylamino$.
 - 27. (New) The compound of claim 20 or 21 wherein R^5 is cyano(C_1 - C_6)alkylaminoalkyl or aminocarbonyl(C_1 - C_6)alkylamino(C_1 - C_6)alkyl.
 - 28. (New) The compound of claim 20 or 21 wherein R⁵ is acetylamino(C₁-

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- C₆)alkylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, cyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl,
- 30 ((C₁-C₆)alkyl)₂cyanoguanidino(C₁-C₆)alkylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkylureido(C₁-C₆)alkylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂ureido(C₁-C₆)alkylamino(C₁-C₆)alkyl or aminocarbonyloxy(C₁-C₆)alkylamino(C₁-C₆)alkyl.
- 35 29. (New) The compound of claim 20 or 21 wherein R⁵ is acetylamino(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl,

- 5 (C₁-C₆)alkylaminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, aminosulfonyl(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkyl, cyanoguanidino(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl or cyano(C₁-C₆)alkylcarbonylamino(C₁-C₆)alkyl.
- 10
- 30. (New) The compound of claim 20 or 21 wherein R^5 is amino(C_1 - C_6)alkylaminocarbonylamino(C_1 - C_6)alkylaminocarbonylamino(C_1 - C_6)alkyl, ((C_1 - C_6)alkyl)₂amino(C_1 - C_6)alkylaminocarbonylamino(C_1 - C_6)alkyl, ((C_1 - C_6)alkylaminocarbonylamino(C_1 - C_6)alkyl, (C_1 - C_6)alkylaminocarbonylamino(C_1 - C_6)alkyl, (C_1 - C_6)
- alkylcarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonyl amino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminocarbony
- C₉)heterocycloalkyl(C₁-C₆)alkylaminocarbony lamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryl(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylureido(C₁-C₆)alkyl, (C₁-C₆)alkylureido(C₁
- 25 31. (New) The compound of claim 20 or 21 wherein R⁵ is amino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂amino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (acetyl)((C₁-C₆)alkyl)amino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, ureido(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylsulfonylamino(C₁-C₆)alkylsulfonyl
- $C_6) alkylureido(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkyl, ((C_1-C_6)alkyl)_2 ureido(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkyl, ((C_1-C_6) alkyl)_2 (cyanoguanidino)(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkyl, aminocarbonyl(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkyl, aminocarbonyl(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkyl, aminocarbonyl(C_1-C_6) alkylsulfonylamino(C_1-C_6) alkylsulfonyl$
- 35 C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkoxycarbonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-

- 5 C₆)alkylsulfonylamino(C₁-C₆)alkyl, aminosulfonylamino(C₁-C₆)alkyl, (C₁-C₆)alkylaminosulfonylamino(C₁-C₆)alkyl or ((C₁-C₆)alkyl)₂aminosulfonylamino(C₁-C₆)alkyl.
 - 32. (New) The compound of claim 20 or 21 wherein R^5 is cyanoguanidino(C_1 - C_6)alkyl, (C_1 - C_6)alkyl(cyanoguanidino)(C_1 - C_6)alkyl, ((C_1 - C_6)alkyl)₂(cyanoguanidino)(C_1 - C_6)alkyl,
- (C₂-C₉)heterocycloalkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(C₁-C₉)heterocycloalkyl(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₂-C₉)heterocycloalkyl(cyanoguanidino)(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₁-C₆)alkyl, (C₁-C₆)alkyl, (C₁-C₆)alkyl, (C₁-C₆)alkyl, (C₁-C₆)alkyl)₂amino(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, ((C₁-C₆)alkyl)₂amino(C₁-C₆)alkyl
- 15 C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, aminocarbonyl(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl, (C₁-C₆)alkylaminocarbonyl(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl or ((C₁-C₆)alkyl)₂aminocarbonyl(C₁-C₆)alkyl(cyanoguanidino)(C₁-C₆)alkyl.
 - 33. (New) The compound of claim 20 or 21 wherein R^5 is (C_2 -
- C₆)alkylaminosulfonyl, (C₂-C₉)heterocycloalkyloxycarbonylamino(C₁-C₆)alkylaminosulfonyl, (C₂-C₉)heteroaryloxycarbonylamino(C₁-C₆)alkylaminosulfonyl, aminocarbonyl(C₁-C₆)alkylaminosulfonyl, cyanoguanidino(C₁-C₆)alkylaminosulfonyl, (C₂-C₉)heterocycloalkylaminosulfonyl, Other preferred compounds of formula I include those wherein R⁵ is halo(C₁-
- C₆)alkylaminocarbonyl, hydroxy(C₁-C₆)alkylureido, halo(C₁-C₆)alkylsulfonylamino, (C₁-C₆)alkoxycarbonyl(C₁-C₆)alkylamino(C₁-C₆)alkyl, hydroxy(C₁-C₆)alkylaminocarbonylamino(C₁-C₆)alkyl, halo(C₁-C₆)alkylsulfonylamino(C₁-C₆)alkyl, aminosulfonyl, (C₁-C₆)alkylaminosulfonyl, ((C₁-C₆)alkyl₂aminosulfonyl, hydroxy(C₁-C₆)alkylaminosulfonyl, and (C₁-C₆)alkoxy(C₁-C₆)alkylaminosulfonyl.